

This listing of claims will replace all prior versions, and listings, of claims in the application.

Listing of Claims:

Claim 1 (Previously Presented): A method for obtaining predicted user satisfaction data regarding the performance of a search mechanism which provides search results in response to user queries, comprising:

storing at least one predictive pattern for predicting user satisfaction with said provided search results from data regarding user behavior in response to a query; and

applying said predictive pattern to at least one element of context-based user behavior data, said elements of context-based user behavior data comprising a performed query, provided search results, and user behavior data; and

generating predicted user satisfaction data based on the application of the predictive pattern to the at least one element of context-based user behavior data, the predicted user satisfaction data comprising an indication of user satisfaction.

Claim 2 (Original): The method of claim 1, where said storing at least one predictive pattern comprises utilizing data mining techniques to determine at least one predictive pattern for user satisfaction.

Claim 3 (Original): The method of claim 1, where said user behavior data comprises explicit user feedback data collected from said user contemporaneously with said performed query.

Claim 4 (Original): The method of claim 1, where said user behavior data comprises implicit user feedback data.

Claim 5 (Original): The method of claim 4, where said user behavior data is selected from the group comprising: user navigation to a new page using a hyperlink; user navigation to a new page using a history list; user navigation to a new page using an address bar; user navigation to a new page using a favorites list; user scrolling behavior; user document printing behavior; user adding a document to said favorites list; user switching focus to a different application; user switching focus back from a different application; user closing a window; user dwell time behavior; user initiation of a new query; sequences of user

behaviors; and user inactivity without switching focus from a window relating to said performed query.

Claim 6 (Original): The method of claim 1, where said application of said predictive pattern yields predicted user satisfaction data regarding said search mechanism, and where said method further comprises:

displaying said predicted user satisfaction data.

Claim 7 (Original): The method of claim 1, where said application of said predictive pattern further comprises isolating a set of said performed queries which are unsatisfactory and which share a common characteristic.

Claim 8 (Original): The method of claim 1, where said context-based user behavior data comprises a testing set of context-based user behavior data.

Claim 9 (Original): At least one of an operating system, a computer readable medium having stored thereon a plurality of computer-executable instructions, a co-processing device, a computing device, and a modulated data signal carrying computer executable instructions for performing the method of claim 1.

Claim 10 (Previously Presented): A system for obtaining predicted user satisfaction data regarding the performance of a search mechanism which provides search results in response to user queries, comprising:

storage for storing at least one predictive pattern for predicting user satisfaction with a said provided search results from data regarding user behavior in response to a query, wherein the predictive pattern is a model that predicts user satisfaction based on the context-based user behavior data; and

data mining apparatus for applying said predictive pattern to at least one element of context-based user behavior data, said elements of context-based user behavior data comprising a performed query, provided search results, and user behavior data.

Claim 11 (Original): The system of claim 10, where said predictive pattern is derived from the use of data mining techniques to determine at least one predictive pattern for user satisfaction.

Claim 12 (Original): The system of claim 10, where said user behavior data comprises explicit user feedback data collected from said user contemporaneously with said performed query.

Claim 13 (Original): The system of claim 10, where said user behavior data comprises implicit user feedback data.

Claim 14 (Original): The system of claim 13, where said user behavior data is selected from the group comprising: user navigation to a new page using a hyperlink; user navigation to a new page using a history list; user navigation to a new page using an address bar; user navigation to a new page using a favorites list; user scrolling behavior; user document printing behavior; user adding a document to said favorites list; user switching focus to a different application; user switching focus back from a different application; user closing a window; user dwell time behavior; user initiating a new query; sequences of user behaviors; and user inactivity without switching focus from a window relating to said performed query.

Claim 15 (Original): The system of claim 10, where said data mining apparatus produces predicted user satisfaction data regarding said search mechanism, and where said method further comprises:

displaying said predicted user satisfaction data.

Claim 16 (Original): The system of claim 10, where said data mining apparatus further isolates a set of said performed queries which are unsatisfactory and which share a common characteristic.

Claim 17 (Original): The system of claim 10, where said context-based user behavior data comprises a testing set of context-based user behavior data.

Claim 18 (Previously Presented): A method for real-time optimization of a search mechanism which provides search results in response to user queries, comprising:

storing at least one predictive pattern for predicting user satisfaction with a said provided search results from data regarding user behavior in response to a query;

applying said predictive pattern to at least one element of context-based user behavior data, said elements of context-based user behavior data comprising a performed query, provided search results, and user behavior data;

generating predicted user satisfaction data based on the application of the predictive pattern to the at least one element of context-based user behavior data; and

modifying said search mechanism based on the predicted user satisfaction data.

Claim 19 (Original): The method of claim 18, where said modification of said search mechanism comprises modifying said search mechanism so said search results for a given query are presented in a different order.

Claim 20 (Original): The method of claim 18, where said context-based user behavior data comprises a pre-judged set of user behavior data.

Claim 21 (Original): At least one of an operating system, a computer readable medium having stored thereon a plurality of computer-executable instructions, a co-processing device, a computing device, and a modulated data signal carrying computer executable instructions for performing the method of claim 18.

Claim 22 (Previously Presented): A system for real-time optimization of a search mechanism which provides search results in response to user queries, comprising:

storage for storing at least one predictive pattern for predicting user satisfaction with said provided search results from data regarding user behavior in response to a query, wherein the predictive pattern is a model that generates predicted user satisfaction data based on context-based user behavior data;

data mining apparatus for applying said predictive pattern to at least one element of context-based user behavior data, said elements of context-based user behavior data

comprising a performed query, provided search results, and user behavior data; and
dynamic search mechanism modifier for modifying the search mechanism based on
the predicted user satisfaction data.

Claim 23 (Original): The system of claim 22, where said dynamic search mechanism
modifier modifies said search mechanism so said search results for a given query are
presented in a different order.

Claim 24 (Original): The system of claim 22, where said context-based user behavior data
comprises a pre-judged set of user behavior data.

Claim 25 (Previously Presented): A system for real-time optimization of a search mechanism
which provides search results in response to user queries, comprising:

means for storing at least one predictive pattern for predicting user satisfaction with
said provided search results from data regarding user behavior in response to a query,
wherein the predictive pattern is a model that generates predicted user satisfaction data based
on context-based user behavior data;

means for applying said predictive pattern to at least one element of context-based
user behavior data, said elements of context-based user behavior data comprising a performed
query, provided search results, and user behavior data; and

means for outputting predicted user satisfaction data based on the application of said
predictive pattern.

Claim 26 (Previously Presented): The system of claim 25, further comprising:

means for modifying said search mechanism based on the outputted predicted user
satisfaction data.

Claim 27 (Previously Presented): The method of claim 1, further comprising isolating
problematic queries based on the predicted user satisfaction data.

DOCKET NO.: MSFT-2826/306403.01
Application No.: 10/806,271
Office Action Dated: December 1, 2006

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37 CFR § 1.116**

Claim 28 (Previously Presented): The method of claim 1, further comprising generating a summary of measured satisfaction based on the predicted user satisfaction data.

Claim 29 (Previously Presented): The method of claim 1, further comprising monitoring a search mechanism responsive to the predicted user satisfaction data.